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DAINGERFIELD DIVISION

ORDNANCE AEROPHYSICS LABORATORY

DAINGERFIELD, TEXAS

Operating Under Contract NOw 63-0405-c With the Bureau of Naval Weapons, Department of the Navy

ABSTRACT

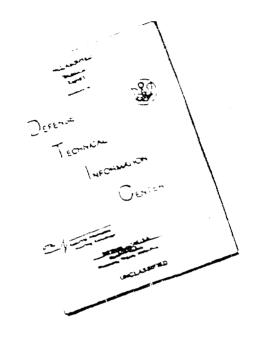
OAL Report 663-1

Tests of the HT/TT PIP Terrier Radomes, in the Blowdown Facility, for General Dynamics/Pomona. (U)

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J. T. Jeter		F. T. Smith
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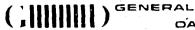
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() GENERAL DYNAMICS POMONA

REPORT NO. 663-1

ABSTRACT

Tests of the HT/IT PIP Terrier radomes for the Pomona Division of General Dynamics Corporation were conducted at the Ordnance Aerophysics Laboratory in the Blowdown Facility (Cell 6) during the period of 27 January through 14 February 1964. All radomes tested were the pointed nose radome assemblies. None of the 1.35 radius rounded nose radome assemblies were tested. A total pressure/ temperature rake plus three steel calibration radomes were used to establish test conditions. Ten ceremic-type radome assemblies were tested at either 100, 110, or approximately 125 percent thermal stress. Some of the assemblies were yaved to either 12 or 142 degrees angle of attack during the run. Each model was tested in a Mach 2.44, free-jet airstream, at approximately sea level pressure conditions. Inner surface temperatures and loads were measured, and time histories were recorded. One steel calibration radome, and two ceramic type radome assemblies failed during the tests. Movies of all models were made throughout the tests.

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